ABSTRACT

A wireless access gateway provides a telecommunications link between a packet switched network and a base transceiver station (BTS), the BTS enabling wireless communication with mobile stations in a wireless coverage area. A session manager controls sessions through the packet switched network, and a mobility server performs mobility management for mobile stations being served by wireless access gateways. A wireless access gateway includes a packet agent, a coding agent, a radio frequency (RF) manager, and a signaling control agent. The packet agent packetizes frames from the BTS into packets and depacketizes packets into frames for the BTS. The coding agent transcodes content contained in packets from a first format to a second format. The RF manager performs RF management of the BTS. The signaling control agent sends queries to and receives responses from the session manager to control the operation of the wireless access gateway.

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